



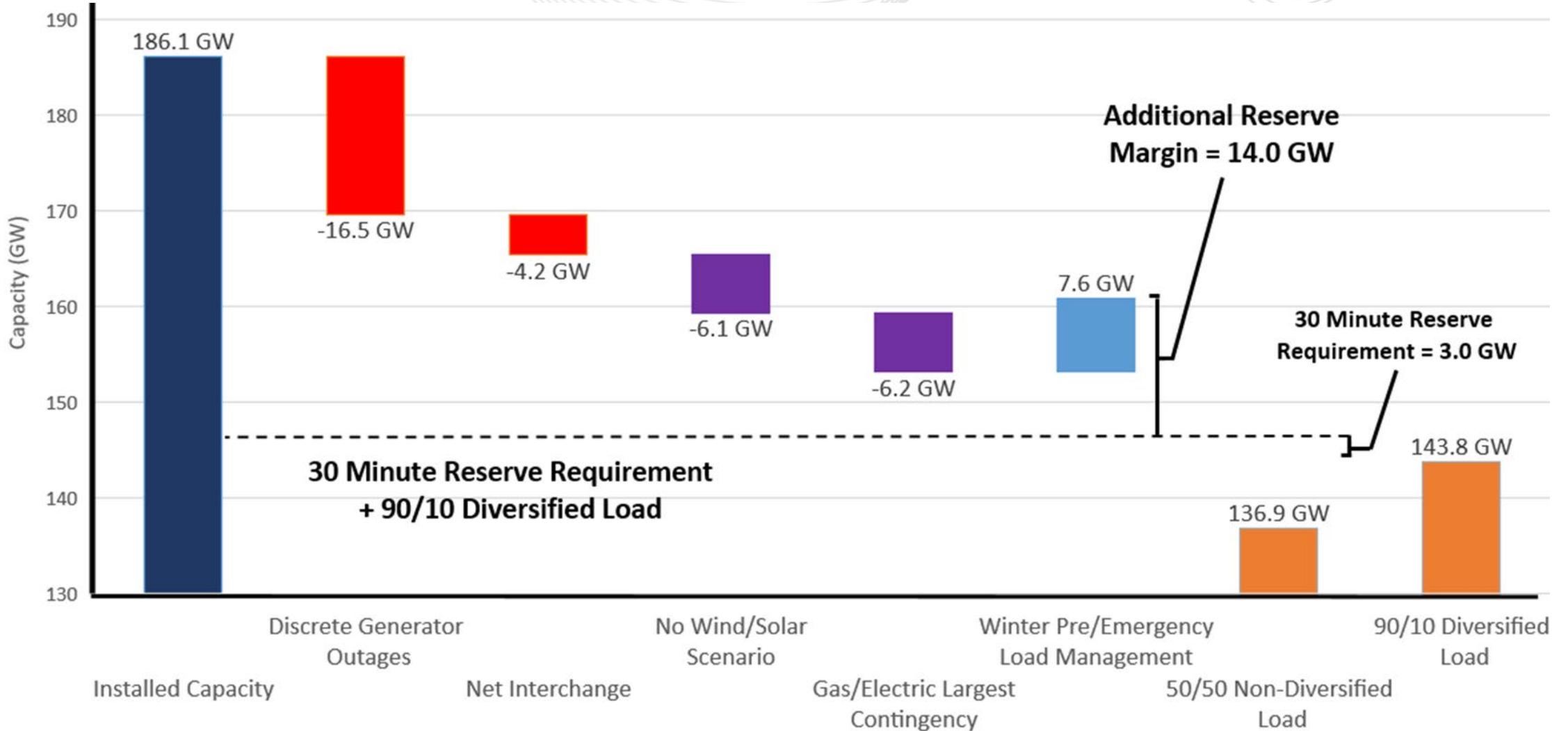
2022 Winter Reliability Forum

Chris Piong

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PJM

Indiana Utility Regulatory Commission

November 17, 2022

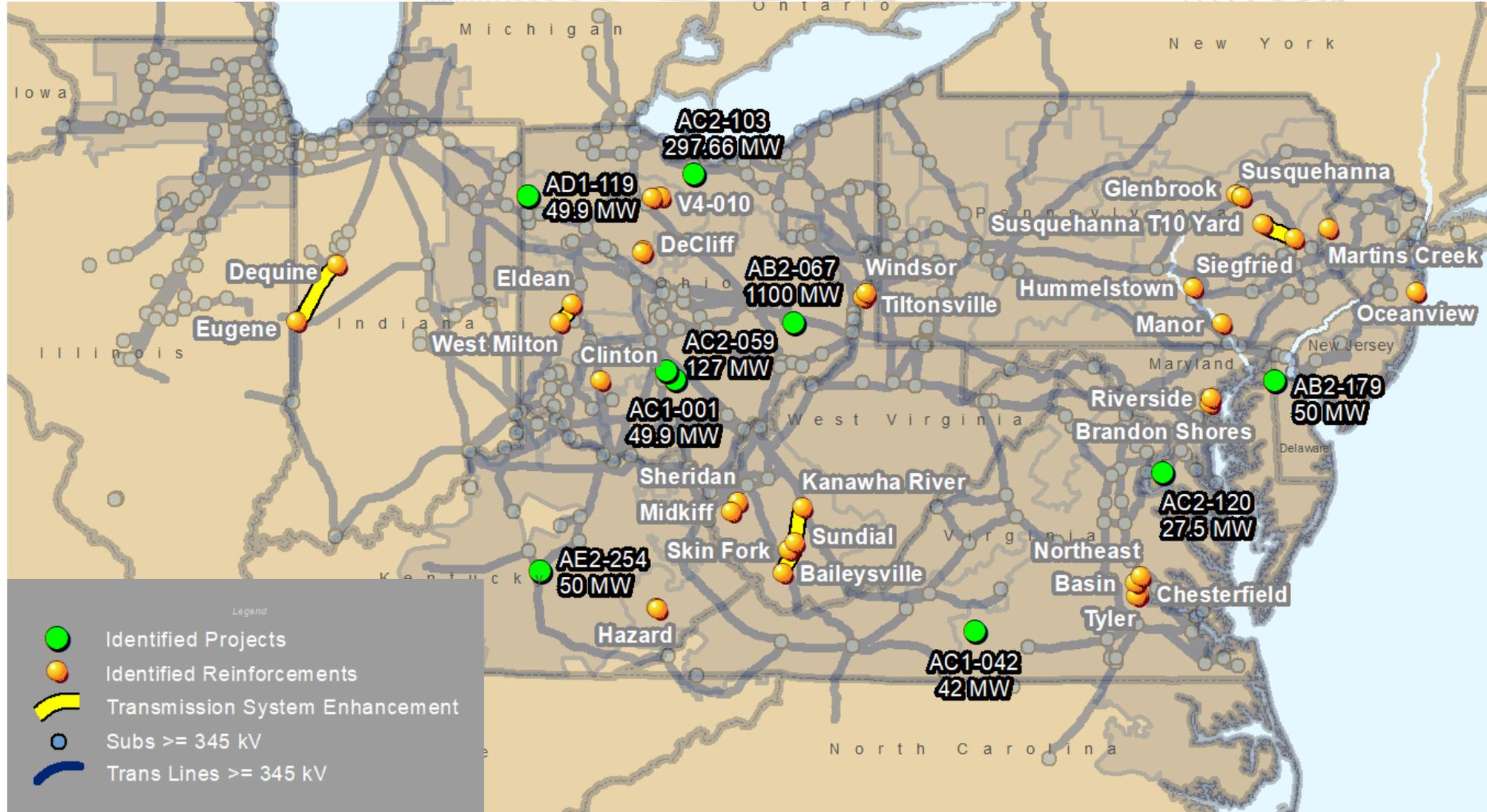


50/50 Non-Diversified Peak Load Base Case		
LAS Load Forecast	136,867 MW	
Preliminary RTO Net Interchange	3,574 MW**	Exporting
PJM RTO Installed Capacity	186,124 MW	Preliminary
Discrete Generator Outages	16,510 MW	

**OATF Case Interchange (-3,574 MW) = Forecast Net Interchange(-4,186 MW) + Pseudo-Tie Adjustment (612 MW)

PEAK LOAD ANALYSIS

No reliability issues identified



No reliability issues identified for base case and N-1 analysis.

Re-dispatch and switching required to control local thermal or voltage violations in some areas.

All networked transmission voltage violations were controlled by shunt and tap adjustments.

Sensitivity Studies

Impact

External contingencies that could impact PJM reliability

N-1-1 Relay trip conditions

Max-Cred Contingency Analysis

Transfer Interface Analysis

BGE/PEPCO Import Capability

90/10 Load Forecast study (143,782 MW diversified peak load forecast)

Solar and Wind Generation Sensitivity Study

Gas Pipeline Disruption Study

No reliability concerns

Seasonal Fuel Inventory and Emissions Data Request

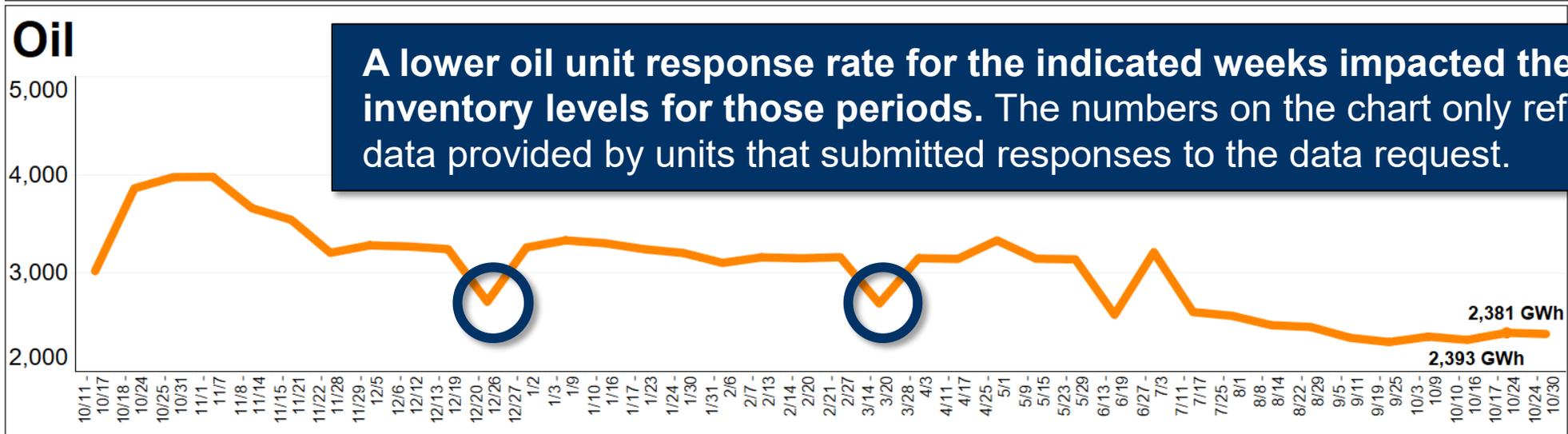
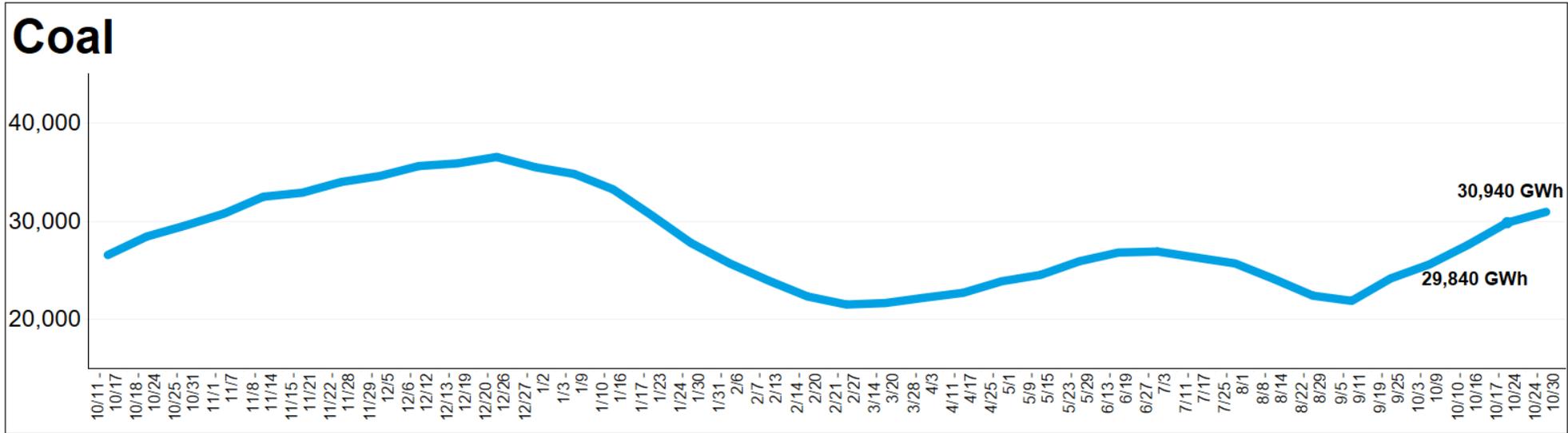
- Focused on fuel supply and delivery details, fuel inventory and emissions limitations
- Required for reliable operations planning purposes
- Enhances PJM situational awareness in preparation for severe cold weather
- Data request open in eDART from October 17 through November 21

Cold Weather Preparation Guideline and Checklist

- Provides generators with a guide to prepare units for cold weather operation
- Based on Manual 14-D, Attachment “N”
- Data request in eDART
 - Starting November 1 and ending on December 15
 - Option of using the PJM or equivalent checklist
 - **NEW:** Requires verification of generating facility cold weather operating temperature limit

Weekly Fuel Inventory and Non-Fuel Consumables Data Request

- Focused on coal and oil fuel supply, delivery details, and inventory levels
- Also focused on non-fuel consumable supply, delivery details and inventory levels
- Enhance PJM situational awareness in preparation for winter operations
- Data request open in eDART weekly



A lower oil unit response rate for the indicated weeks impacted the inventory levels for those periods. The numbers on the chart only reflect data provided by units that submitted responses to the data request.

Resource Adequacy

PJM System Resource Adequacy

Capacity Market / Reliability Pricing Model (RPM)

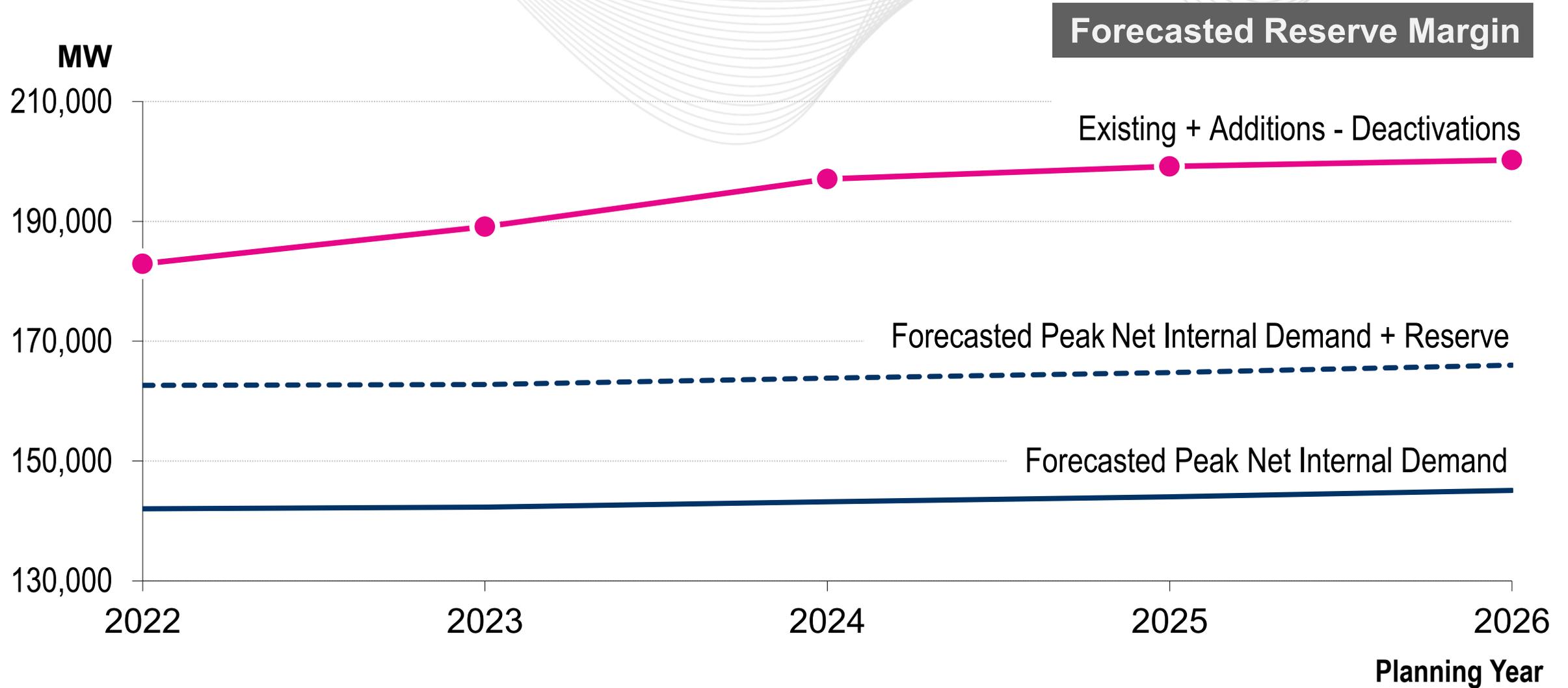
PJM secures capacity on behalf of Load Servers to satisfy capacity obligations not satisfied through self-supply.

Fixed Resource Requirement Alternative (FRR)

Load Server secures capacity to satisfy their load obligation, reflects commitments to PJM and satisfies ongoing compliance.



Forecasted Resource Adequacy Reserve Margin





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